

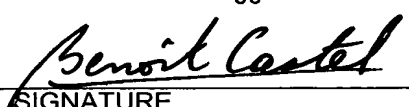
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		Attorney Docket No. <b>8022-1080</b> U.S. Application No. <b>10/516821</b>
INTERNATIONAL APPLN. NO. <b>PCT/JP03/008245</b>	INTERNATIONAL FILING DATE <b>June 27, 2003</b>	PRIORITY DATE CLAIMED <b>June 28, 2002</b>
TITLE OF INVENTION: <b>THERMO-OPTIC PHASE SHIFTER AND MANUFACTURING METHOD OF THE SAME</b>		
APPLICANT(S) FOR DO/EO/US: <b>Morio TAKAHASHI</b>		

Applicant herewith submits to the United States Designated Elected Office (DO/EO/US) the following items and other information:

- ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
- ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
- ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)).  
The submission must include items (5), (6), (9) and (21) indicated below.
- ☒ The US has been elected (Article 31).
- ☒ A copy of the International Application as filed (35 U.S.C. 371 (c)(2))
  - ☒ is attached hereto (required only if not communicated by the International Bureau).
  - ☐ has been communicated by the International Bureau. See attached PCT/IB/308.
  - ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
- ☒ An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2))
  - ☒ is attached hereto.
  - ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
- ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
  - ☐ are attached hereto (required only if not communicated by the International Bureau).
  - ☐ have been communicated by the International Bureau.
  - ☐ have not been made, however, the time limit for making such amendments has NOT expired.
  - ☐ have not been made and will not be made.
- ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).
- ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)) or a Declaration of Inventorship for purposes of U.S.A. designation pursuant to rule 4.17(iv).
- ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

**Items 11 to 20 below concern document(s) or information included:**

- ☒ Information Disclosure Statement (IDS) w/PTO-1449 - ☒ Copy of IDS citations.
- ☒ Assignment Papers (cover sheet & document(s)).
- ☒ A preliminary amendment.
- ☒ An Application Data Sheet under 37 C.F.R. 1.76.
- ☐ A substitute specification.
- ☐ A change of power of attorney and/or change of address letter.
- ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
- ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
- ☐ A second copy of the English language translation of the international application (35 U.S.C. 154(d)(4)).
- ☒ Other items or information: **Abstract, International Search Report**

U.S. APPLICATION NO. <b>10751682</b> INTERNATIONAL APPLN. NO. <b>PCT/JP03/008245</b>		ATTORNEY DOCKET NO. <b>8022-1080</b>		
21. <input checked="" type="checkbox"/> The following fees are submitted:  <b>BASIC NATIONAL FEE (37 CFR 1.492 (a) (1)-(5)):</b>  Neither international preliminary examination fee nor international search fee paid to USPTO and international Search Report not prepared by the EPO or JPO .....\$1110.00  International preliminary examination fee not paid to USPTO but International Search Report prepared by the EPO or JPO .....\$950.00  International preliminary examination fee not paid to USPTO but International search fee paid to USPTO .....\$790.00  International preliminary examination fee paid to USPTO but all claims did not satisfy provision of PCT Article 33 (1)-(4).....\$750.00  International preliminary examination fee paid to USPTO and all claims satisfied provision of PCT Article 33 (1)-(4).....\$100.00  <b>ENTER APPROPRIATE BASIC FEE AMOUNT</b>			<b>CALCULATIONS PTO USE ONLY</b>	
			\$ 950.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20- <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e))			\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$
Total Claims	37 - 20 =	17	x \$18.00	\$ 306.00
Independent Claims	7 - 3 =	3	x \$88.00	\$ 352.00
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$300.00	\$
<b>TOTAL OF ABOVE CALCULATION =</b>				\$ 1,608.00
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				\$
<b>SUBTOTAL =</b>				\$ 1,608.00
Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$
<b>TOTAL NATIONAL FEE =</b>				\$ 1,608.00
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) \$40.00 per property +				\$ 40.00
<b>TOTAL FEES ENCLOSED =</b>				\$ 1,648.00
				Amount to be refunded:
				\$
				Charged:
				\$
<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p><input checked="" type="checkbox"/> A check in the amount of <b>\$1,648.00</b> to cover the above fees is attached.</p> <p><input type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to Deposit Account No. 25-0120 in the name of Young &amp; Thompson. A duplicate copy of this sheet is enclosed.</p> <p><input checked="" type="checkbox"/> The Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 25-0120 for any additional fee required under 37 C.F.R. §§ 1.16 or 1.17.</p> </div> <div style="width: 35%; text-align: center;"> <p>            SIGNATURE</p> <p>Benoit Castel, Reg. No. 35,041            NAME, REGISTRATION NUMBER</p> <p>December 7, 2004            DATE</p> </div> </div>				
SEND ALL CORRESPONDENCE TO: YOUNG & THOMPSON 745 South 23 <sup>rd</sup> Street Arlington, VA 22202 Telephone (703) 521-2297  Y&T Customer No. <b>00466</b> BC/yr				